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James Webb Space Telescope Advanced Mirror Demonstrator tests under way at Marshall Center

by Sanda Martel

Testing of an Advanced Mirror System Demonstrator for NASA's James Webb Space Telescope, successor to the Hubble Space Telescope, is currently under way at the Marshall Center.

Two mirror technology candidates will undergo a battery of stringent optical performance tests under cryogenic (supercold) conditions during the spring and summer months. One technology will ultimately be chosen as the one to be pursued for the primary mirror of the Webb telescope.

The mirror now undergoing testing was built by Eastman Kodak Co., of Rochester, N.Y. The other candidate, built by Ball Aerospace of Boulder, Colo., is currently scheduled to begin testing in June 2003.

A team of Marshall engineers and specialists will conduct the optical performance tests at Marshall's X-Ray Calibration Facility — the world's largest, most advanced laboratory for simulating X-ray and visible light emissions from distant celestial objects. The facility produces a space-like environment in which optical components for space telescopes can be tested and the quality of their performance in space predicted. The



Photo by Emmett Given, NASA/Marshall Center

Centennial of flight celebrated at Marshall

Space Shuttle Commander Eileen Collins, left, along with "the Wright Brothers" (their roles played by Patrick Karigan and Michael McLean) with Center Director Art Stephenson, view a model of the brothers' airplane at the Centennial of Flight celebration May 28. See page 3 for details.

facility includes four buildings with an interconnecting evacuated pipe that extends approximately one-third mile in length.

The X-Ray Calibration Facility is a world-class facility

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John Schumacher named NASA chief of staff; Courtney Stadd leaving for private sector

Headquarters release

NASA Administrator Sean O'Keefe announced John Schumacher would be appointed the agency Chief of Staff. Schumacher has served as NASA's Assistant Administrator for External Relations since June 1995. He replaces Courtney Stadd, who is returning to the

private sector in July.

"John brings invaluable experience and perspective to the job. He is well versed in NASA programs, familiar with our many national and international commitments, and a proven resource manager. His ability to simultaneously direct or manage numerous initiatives will benefit all of us at

NASA Headquarters," Administrator O'Keefe said.

As Chief of Staff, Schumacher will be responsible for the day-to-day operations of NASA Headquarters. He will work with Administrator O'Keefe and senior NASA staff to shape the strategic direction of the

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Webb

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uniquely qualified to test mirrors such as those of the James Webb Space Telescope. In operation since the mid-1970s, the facility was originally used to simulate X-ray emissions from distant celestial objects to measure the X-ray optical performance of the HEAO-B or Einstein Observatory. A 1999 facility improvement added a helium refrigeration unit and cryogenic shroud, making it possible to test visible optics at cryogenic temperatures. Technology upgrades have also reduced testing time and costs.

During its 27 years of operation, the facility has performed testing in support of a wide array of projects, including the Hubble Space Telescope, Solar A, Chandra technology development, Chandra High Resolution Mirror Assembly and science instruments, Constellation X-Ray Mission, and Solar X-Ray Imager, currently operating on a Geostationary Operational Environmental Satellite.

Testing at the Marshall Center on the Advanced Mirror System Demonstrator for the Webb Telescope will be conducted in a vacuum chamber cooled to approximate the

supercold temperatures found in space. Numerous measurements will be taken to predict future performance.

The James Webb Space Telescope project is managed by NASA's Goddard Space Flight Center in Greenbelt, Md.

For additional information on the James Webb Space Telescope, visit the Goddard Space Flight Center Web site at: <http://jwst.gsfc.nasa.gov/>.

The writer, an employee of ASRI, supports the Media Relations Department.

Chief

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agency, while managing and articulating various policies and programs.

As Assistant Administrator for External Relations, he was responsible for NASA's interaction with Executive Branch offices and agencies; international relations; administration of export/international technology transfer control; history office, advisory councils and commissions. Schumacher joined NASA in June of 1989, and served as Advisor to the Administrator until January 1991, when he became the Deputy Assistant Administrator for External Relations.

Schumacher came to NASA from the New York law firm of Rogers & Wells, where he was engaged in corporate practice. He served on active duty in the U.S. Navy, at sea aboard USS Guadalcanal, and ashore in the space and electronic warfare directorates of the Joint Staff and Navy Staff. He is currently a Captain in the U.S. Naval Reserve, serving as commanding officer of a unit supporting the Navy Staff N3/N5 Directorate.

Schumacher graduated with distinction from the U.S. Naval Academy in 1976. He earned a master's degree from Georgetown University, a law degree from Columbia University, and a certificate with honors in international law from Columbia's Parker School of International and Foreign Law. He is a member of the New York Bar, the American Bar Association and the U.S. Naval Institute.

Schumacher's awards include the Presidential Rank of Distinguished Executive and Meritorious Executive; the NASA Distinguished Service Medal; and the Legion of Merit.

Job Announcements

MS03C0099, Program Analyst. GS-0343-13, Engineering Directorate, Business and Integration Office. Competitive Placement Plan. Closes June 6. Contact: Rita Evans-McCoy at 544-7507.

MS03C0100, AST, Technical Management. GS-0801-14, Engineering Directorate, Business and Integration Office. Competitive Placement Plan. Closes June 6. Contact: Rita Evans-McCoy at 544-7507.

Obituaries

Jason Forrest Ford, 34, of Decatur died Tuesday, May 27, 2003, at his home. Funeral services were Wednesday, May 28 at Roselawn Funeral Home with the Rev. Bill Simons officiating.

Ford was born April 13, 1969, in Decatur. Ford was employed by New Technology Corp. of Huntsville and was currently working in the Software Engineering group on the Consolidated Space Operations Contract (CSOC) at Marshall. He was a member of Westminster Presbyterian Church in Decatur.

Survivors include his parents, John Forrest Ford and Glenda D. Ford; one brother, Johnathan Fletcher Ford; his grandmother, Myrtle Dutton of Falkville; and two nephews, Forrest Ford and Jared Ford.

Ethics briefing mandatory

Federal regulations require that all employees who file financial disclosure reports, either public or private, receive an annual ethics briefing. This mandatory briefing is an important reminder of what is expected of us as public servants. In keeping with our People Value, we must strive to demonstrate the highest standards of integrity and ethical behavior in our dealings with our customers and each other.

In the coming weeks verbal briefings will be presented by the Office of Chief Counsel. Every employee who files a financial disclosure report is expected to attend one of these mandatory briefings. Other interested employees are also invited to attend. Employees will receive credit for attending the briefing through AdminStar.

— **Art Stephenson**
Marshall Center Director

Centennial of Flight celebrated at Marshall

Marshall celebrated the Centennial of Flight on May 28. Astronaut Eileen Collins, who was commander on STS-93 in 1999, joined the festivities and unveiled, along with Center Director Art Stephenson, a new Marshall exhibit reflecting the spirit of the Centennial. Collins also participated in a "Footprints of the Future" ceremony for those who have made historic contributions to space flight.



Photo by Emmett Given, NASA/Marshall Center

Marshall Center Director Art Stephenson presents Shuttle Commander Eileen Collins with a special Centennial of Flight memento.



Photo by Emmett Given, NASA/Marshall Center

Michelle Wright gets a handshake and autograph from Commander Eileen Collins.



Photo by Emmett Given, NASA/Marshall Center

Astronaut Eileen Collins talks with students at Marshall participating in the Centennial of Flight Earth-to-Orbit Challenge.



Photo by Emmett Given, NASA/Marshall Center

Right: Gloria Betts sings the National Anthem while astronaut Eileen Collins looks on.



Photo by Emmett Given, NASA/Marshall Center

Jack Hood takes a footprint impression from astronaut Eileen Collins for the "Footprints to the Future" project.

Asian Pacific American Heritage Month marked

The Asian Pacific American Heritage celebration was held May 28. The theme for the event was "Salute to Liberty" and included cultural presentations and foods. Daphne Kwok, executive director for the Asian Pacific American Institute for Congressional Studies, was guest speaker.



Photo by David Higginbotham, NASA/Marshall Center

Guest speaker Daphne Kwok, left, talks with Dr. Alan S. Chow, chair of the Marshall Asian Pacific American Advisory Committee.



Photo by Doug Stoffer, NASA/Marshall Center

Noriko Ellis models a traditional Japanese kimono.



Photo by Doug Stoffer, NASA/Marshall Center

Alisa-Tnhu Trinh, daughter of Marshall employee Diep Trinh, plays a dan tranh, a traditional string instrument from Vietnam.



Photo by Doug Stoffer, NASA/Marshall Center

Kim Hanglen, left, and Xa Rambo, right, perform a cultural dance from Vietnam.



Photo by Doug Stoffer, NASA/Marshall Center

From left, Vera Vergara-Ellis, Dr. Malou Salazar-Gutierrez and Aida Gunter perform a Philippine folk dance.

Center Announcements

Dial-in and VPN require security registration

Marshall team members who use the Virtual Private Network software to connect to the Marshall Private Network, or who dial directly into the network from home or TDY, must apply for a MSFC RSA SecurID Token in June. For more information, including frequently asked questions and an updated schedule to apply, go to http://www1.msfc.nasa.gov/INSIDE/announcements/dial_in_token.html.

Thrift Savings Plan season open

The Thrift Savings Plan open season closes June 30 for employees wanting to begin, increase or decrease, contributions to their account. For more information, see "Inside Marshall" or call 544-5654 or 544-7536.

Trade studies and decision-making course will be June 18-19

A trade studies and decision-making course for civil servants will be June 18-19 in Bldg. 4200, Room G-13E. Registration is through AdminSTAR. For more information, call Tina Smith at 544-7834.

Earth Science Technology Conference will be June 24-26

NASA's Earth Science Enterprise will hold its third annual Earth Science Technology Conference June 24-26 at the University of Maryland in College Park. The conference is an opportunity for NASA planners, managers, technologists and scientists to review research sponsored by the Earth Science Technology Office. Registration is due June 13. For more information, go to <http://esto.gsfc.nasa.gov/conferences/esto2003/index.html> or call Mary A. Floyd, conference coordinator, at 301-345-3211.

Presentation delivery course available

A presentation delivery skills course

will be offered from 1-3:30 p.m. June 19 at the Marshall Institute, Room 722. Participants should register through AdminStar. For more information, call Pat Schultz at 544-7559.

Chandra X-ray Observatory Symposium set for September

The Chandra X-ray Observatory Program will host a three-day symposium Sept. 16-18 at the Huntsville Marriott. A banquet will be Sept. 17 at the U.S. Space & Rocket Center. The Marshall Center's Chandra Program is sponsoring the event. For more information, go to <http://mi.msfc.nasa.gov/chandra/index.html> or call 544-5468 or 544-0570.

MSAT safety jeopardy board event June 12

The next MSAT safety jeopardy event is scheduled for Thursday, June 12 from 11 a.m.-12 p.m. in Bldg. 4203 lobby. MSAT also will be making free "I think safe because" badge cards. Bring a small photo for laminating.

Joint Propulsion Conference July 20-23

The American Institute of Aeronautics and Astronautics has provided a special registration discount for Marshall civil servants employees. To register, visit <http://www.aiaa.org/events/jpc-nasa-marshall>. Employees will need to submit a MSFC form 1265 to EODD/CD20. Deadline for registration is July 1. For more information, call Chris Robinson at 544-1422.

MARS Tennis Club holds Mixed Doubles Tournament June 7

The MARS Tennis Club will hold a open mixed doubles tournament Saturday, June 7 at 8:30 a.m. Tennis club members may invite a guest as their partner. Guest fee is \$3. For more information, contact Amy Hemken at 544-7097 or via e-mail.

Marshall Association scholarship applications due July 31

The Marshall Association will award two college scholarships to dependents of Marshall employees or retirees in August. A technical and a non-technical scholarship will be awarded to incoming September freshmen. The association will accept applications until July 31. To receive or submit a completed application form, call Cliff Bailey at 544-5482.

IFMP Business Warehouse open house in June

For answers to Business Warehouse reporting questions, visit the open house on Tuesdays, Wednesdays and Thursdays throughout June from 1-3 p.m. in Bldg. 4200, Room 600. Bring SAP/BW ID and password. For more information, call Lee Harp at 544-7271.

Revised guidelines for Foreign National Visitors

The revised NPG 1371.2A guidelines for Foreign National visitors are now in effect. Visit Inside Marshall for more information.

CaER All Hands June 11

The CaER Directorate will hold an all hands Wednesday, June 11 beginning at 8:30 a.m. at the Marshall Institute. Lunch will be served at 1 p.m.

IFMP Purchasing Open House in June

For answers to purchasing-related questions, visit the open house on Tuesdays, Wednesdays, and Thursdays throughout June from 9-11 a.m. in Bldg. 4200, Room 600. Bring SAP ID, password and relevant purchasing documentation. For more information, call Lee Harp at 544-7271.

Science Directorate Employee Appreciation Day June 26

The Science Directorate will hold an all hands Thursday, June 26, beginning at 8:30 a.m. at the Rustic Lodge. For more information, visit Inside Marshall.

Employee Ads

Miscellaneous

- ★ Maytag dryer, \$100; Sears upright freezer, 18/20 cu. ft., \$130; cook-top, 30", drop-in, stainless steel, \$75. 837-6649
- ★ Westinghouse electric roaster & stand, \$50; Murray ladies bike, \$25. 881-6025
- ★ Trailer, 4-wheeler or mower load ramps, \$500. 534-5398
- ★ Port-O-Crib, \$20; curling iron set, \$10. 420-4355
- ★ Three piece Oak traditional entertainment center, \$450; Pro 400 folding treadmill, incline, \$350. 256-837-2223
- ★ Dark wood poster bed, Queen, \$75; exercise bike, \$75; wooden bar stool, \$20. 256-534-0939
- ★ Sleeper sofa, recliner, office desks, and component stereo. 256-653-7792
- ★ Whirlpool refrigerator, almond, 26 cu. ft., side-by-side, water and ice in door, \$750. 350-2901
- ★ King size waterbed, mattress, heater, \$150; Bausch & Lomb 454 60X refractor telescope, \$200; BCD, \$100. 656-2965
- ★ Craftsman riding mowers, 11HP, 36", \$265; 12.5HP 38", needs work, \$210. 230-2521
- ★ Sundance hot tub, 4-6 person, approx. 5 yrs. old, \$1,800. 337-1312
- ★ Microwave; stainless vent hood; double sink; cook top; wall oven; refrigerator; dishwasher. 837-2122
- ★ Used covered trailer, 6'x10', \$1,200. 325-1657
- ★ 2002 Kubota L3010 tractor w/Kubota front-end loader, R4 tires, shuttle shift, 150 hrs., \$14,950. 651-4683/961-0192
- ★ Red metal bunk beds w/mattresses, \$100. 783-4313
- ★ Wicker furniture set, 4-piece, cushions included, \$150. 883-5454
- ★ Reproduction oriental rugs, burgundy/white, 5x7, 3x5, 2x6, 2 sets, \$65 each. 533-6800
- ★ Small painted wood desk w/7 drawers, \$50; matching corner shelves, \$15. 533-4824
- ★ 2002 Harley Davidson Sportster 883R, orange/black, S&S Super E carb, lots of extras,

- \$8,000. 509-9550
- ★ Admiral side-by-side refrigerator, almond, 21.6 cu. ft., ice/water dispenser, \$250. 851-8231
- ★ Two crypts, side-by-side, Heart Level, Chapel-of-Love, Valhalla Memory Cemetery, value \$10,900, make offer. 931-962-0709
- ★ NordicTrac cross-country/skiing exercise machine, all black model, \$60. 233-0705/ Dollman
- ★ Pool table, 8' wide, 1" slate, Kasson Brand, Victorian style, \$1,890. 880-6563
- ★ Childcraft crib, nightstand, chest-of-drawers, bed ensemble, solid hardwood, \$250. 837-4627
- ★ Soup tureen, Villeroy & Boch, hand painted, Bauernblume pattern, cream background w/ green, yellow, blue painted flowers. 882-6832
- ★ Wagner Professional power paint roller, used one time, \$80. 971-1511
- ★ Waterbed with mirror, bookcases and side drawers, \$100. 461-7712
- ★ Walnut Danish Modern double bed, \$40. 533-1797
- ★ Wedding gown w/train & veil, size 6, \$250; long red evening gown, halter, size 5, \$75. 881-8674
- ★ Ladies clothes, sizes 10, 12 and 14, dressy and casual,. 858-6746
- ★ 1998 Bayliner 20/50 Special Edition Capri, 5L/V8, 220HP, low hours,. 256-708-3480/708-6469

Vehicles

- ★ 2001 Isuzu Rodeo LSE, 2WD, all-power, leather, loaded, 38K miles, \$16,500. 256-829-1296
- ★ 1972 MGB convertible, \$4,900. 256-464-8933
- ★ 1987 Buick LeSabre, 124K miles, new tires, \$1,600. 256-340-9689
- ★ 1987 BMW 325is, black w/black leather, 5-speed, 120K miles, CD changer, \$4,500. 431-8722 lv. msg.
- ★ 1999 Toyota Sienna XLE minivan, 3.0L/V6, alloy wheels, rear air, AM/FM/cassette/CD, power sliding door. 656-3747
- ★ 1998 Oldsmobile 88 LS, V6, leather seats,

- maroon, 75K miles, \$6,985. 837-2872
- ★ 1992 Ford Explorer Sport, 4x4, black, 157K miles, \$2,850. 880-8321 after 4 p.m.
- ★ 1996 Buick Regal GranSport, low mileage, loaded, moonroof, one-owner. 653-9124/534-7791
- ★ 2000 Nissan Frontier crew cab, automatic, PW/PDL, tilt/cruise, 79K miles, silver, bed liner, \$13,200. 880-9025
- ★ 1994 Jeep Cherokee Limited, V8, 4x4, towing pkg., loaded, all terrain tires, \$7,700. 464-8960
- ★ 2002 Ford Escape XLT, leather seats, sunroof, towing package, 4WD, loaded, 13K miles, \$22,000. 830-1844
- ★ 1995 Toyota Camry 6-cylinder, 142K miles, 4-door, black, \$4,100. 353-3229
- ★ 1989 Nissan Pulsar, 5-speed, T-tops, \$1,800. 509-2466
- ★ 1997 Maxima SE, 4-door, 82K miles, pearl white, sunroof, automatic, CD, new brakes, \$9,990. 881-8674
- ★ 1999 Ford Mustang, V6, white, auto, 40K miles, white Cobra rims, other extras, \$9,995. 508-1426
- ★ 2001 GMC SLE extended cab truck, 4-door, loaded, 60K miles, \$15,800. 233-5161
- ★ 1999 Ford Ranger XLT Sport, supercab, 4-door, 6-cyl., CD, cruise, power windows/locks, bed cap, \$9,300. 859-0729
- ★ 2001 Chevy Tahoe LT, 4WD, 36K miles, loaded, seats eight, \$27,000. 256-828-0103
- ★ 1982 Grand Marquis, 78K miles, loaded, air, 4-door, \$950. 651-6968 after 5 p.m.

Wanted

- ★ Pool table, size 4'x8', 1" slate w/drop pockets, name brand. 256-881-6862

Free

- ★ Kittens, 1-black, 2-gray/white, 2-look like Siamese/Himalayan. 509-2974
- ★ Pea hens. 256-776-9684
- ★ Dog, Shepherd/Sharpie mix, 5 months old, all shots, good w/children. 539-9302

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